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- a non-porous head portion, including a male or female interface for coupling to an abutment, the head portion attached to the coronal end of the shaft; and
- at least one thread integrally formed with the head portion and the at least one thread and the head portion comprising a separate element from the shaft prior to attachment of the head portion with the shaft, the at least one thread including a non-porous material and having an interior surface and a bone-engaging surface, the interior surface configured to engage and wind around the exterior surface of the shaft to form a porous-non-porous material interface between the interior surface and the exterior surface of the shaft, the bone-engaging surface extending outwardly from the exterior surface of the shaft, wherein the exterior surface of the shaft is exposed.
- 2. The dental implant of claim 1, wherein the coronal end of the shaft includes a coronally accessible cavity configured for receiving and coupling to the head portion.
- 3. The dental implant of claim 1, wherein the at least one thread includes a plurality of helical parallel threads, each ²⁰ thread winding apically away from the head portion and concentric about the longitudinal axis.
- **4**. The dental implant of claim **1**, wherein the interior surface of the at least one thread defines a central opening configured to receive and engage at least the coronal end of ²⁵ the shaft.
- 5. The dental implant of claim 1, wherein the exterior surface includes a groove for receiving a portion of the at least one thread
- **6**. The dental implant of claim **1**, wherein the shaft includes one or more channels configured to communicate a flowable material, stored within the shaft, to the exterior surface, each channel of the one or more channels including an opening at the exterior surface.
- 7. The dental implant of claim 6, wherein the opening of ³⁵ each of the one or more channels, at the exterior surface, is positioned between successive windings of the at least one thread
- **8**. The dental implant of claim **6**, wherein at least one channel, of the one or more channels, extends between a ⁴⁰ cavity of the shaft and the exterior surface.
- 9. The dental implant of claim 8, wherein the at least one channel is oriented at an angle toward the apical end, relative to a plane that is orthogonal to the longitudinal axis, from the cavity to the exterior surface.
- 10. The dental implant of claim 8, including the flowable material pre-loaded and stored in the cavity.

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- 11. The dental implant of claim 6, including the flowable material pre-loaded and stored in at least one channel, of the one or more channels.
- 12. The dental implant of claim 6, including the flowable material, the flowable material including at least one of a resorbable polymer, a hydrophilic material, an in-growth promotion material, an insertion aiding material, or an antibiotic.
- 13. The dental implant of claim 6, including the flowable material, wherein the flowable material includes a powder configured to be hydrated.
- 14. The dental implant of claim 1, wherein the bone-engaging surface is coated with a material deposited by a chemical vapor deposition process.
- 15. The dental implant of claim 1, wherein the porous material includes at least one of an organic bone graft, a resorbable polymer, a non-resorbable polymer, a synthetic bone material, tantalum, or collagen.
 - 16. A dental implant, comprising:
 - a shaft defining a longitudinal axis and having an apical end, a coronal end, an exterior surface, and one or more channels, a portion of the exterior surface including a porous material and each of the one or more channels configured to communicate a flowable material to an opening at the exterior surface;
 - a non-porous head portion, including a male or female interface for coupling to an abutment, positioned at the coronal end of the shaft; and
 - at least one thread integrally formed with the head portion and the at least one thread and the head portion comprising an initially separate element from the shaft attachable thereto by the head portion, the at least one thread including a non-porous material and having an interior surface and a bone-engaging surface, the interior surface configured to engage and wind around the exterior surface of the shaft to form a porous-non-porous material interface between the interior surface and the exterior surface of the shaft, the bone-engaging surface extending outwardly from the exterior surface of the shaft, wherein the exterior surface of the shaft is exposed.
- 17. The dental implant of claim 16, wherein at least one of the one or more channels is oriented at a downward angle, relative to a plane that is orthogonal to the longitudinal axis, between an inner portion of the shaft and the exterior surface.
- 18. The dental implant of claim 17, including the flowable material, wherein the flowable material is configured to flow under gravity when hydrated.

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